#### (19) World Intellectual Property Organization International Bureau



## NA CANTA 100 L II YA COMO HOOS HALO INK OOKO HATO INK OOTOO COO HA HA

### (43) International Publication Date 17 March 2005 (17.03.2005)

# (10) International Publication Number

(51) International Patent Classification7:

WO 2005/023088 A3

(21) International Application Number:

A61B 17/32 (74) Agent: GROFF, Bradley, K.; Gardner Groff, P.C., 100

PCT/US2004/024281

28 July 2004 (28.07.2004) (22) International Filing Date:

English

(25) Filing Language:

English

(26) Publication Language:

(30) Priority Data: 60/499,818

3 September 2003 (03.09.2003)

(71) Applicant (for all designated States except US): FACET TECHNOLOGIES, LLC [US/US]; 1850 Parkway Place, Suite 900, Marietta, GA 30067 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GRAGE, Henry, M., Jr. [US/US]; 425 Brook Manor Court, Alpharetta, GA 30022 (US). GRIFFIS, Jack [US/US]; 1133 Druid Lake, Decatur, GA 30033 (US).

Parkwood Point, 2018 Powers Ferry Road, Suite 800, Atlanta, GA 30339 (US). (81) Designated States (unless otherwise indicated, for every

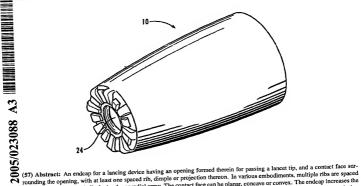
kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

with international search report

[Continued on next page]

(54) Title: ENDCAP FOR A FLUID SAMPLING DEVICE



rounding the opening, with at least one spaced rib, dimple or projection thereon. In various embodiments, multiple ribs are spaced around the opening in a helical, circular or radial array. The contact face can be planar, concave or convex. The endcap increases the surface area in contact with the skin around the sampling site to enhance blood flow and prevent premature wound closure during sample collection.

## WO 2005/023088 A3



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
- (88) Date of publication of the international search report:

25 August 2005